

MAY, 1882.

BRIDGEPORT BRASS CO.,

— MANUFACTURERS OF —

ROLLED BRASS,

German Silver & Platers' Metal,

BRASS AND COPPER RODS, WIRE AND TUBING,

Pure Copper Wire,

For Electrical Purposes,

Bare and Covered,

Brass, Copper & Iron Rivets & Burs,

Bronze Sheets, Rods,

Strips and Tubing,

For Chandeliers and

Gas Fixtures,

Copper Strips, Wire and Tubing,

For Lightning Rods,

PRESS AND STAMP WORK IN VARIETY.

Warerooms,

19 MURRAY STREET, NEW YORK.

Factories,

BRIDGEPORT, CONN.

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8-81
X4

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From the collection of Alan O'Bright

MAY, 1882.

Price List

OF

BRIDGEPORT BRASS CO.

WAREROOMS,

19 MURRAY STREET,

NEW YORK.

FACTORIES,

BRIDGEPORT, CONN.

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Please Observe the following Rules and Suggestions in Ordering.

All Copper in Sheets is numbered according to Stubbs' Gauge.

All Brass in Sheets is numbered according to Brown & Sharpe's Gauge.

Brass and Copper Wire is numbered according to Stubbs' Gauge.

In ordering Electric Wire give the number by Brown & Sharpe's Gauge, or by thousandths of an inch.

Brass and Copper Tubing is numbered according to Brown & Sharpe's Gauge.

All orders, when the name of Gauge is not stated, will be filled as above.

In case parties ordering Sheet Metal, Tubing or Wire have no Gauge, a small piece of either material may be sent, which will answer for the number.

In ordering Sheet Metal always state width and temper wanted, whether *Soft*, *Hard* or *Spring*.

In ordering Wire always state whether *Soft*, *Hard* or *Spring* Wire is wanted.

For useful Tables see pages 16, 17, 18, 19, 20.

For information relating to Weights and Sizes of Sheet Copper, see page 17.

For Table showing the difference between Gauges, see page 14.

All Prices and Discounts are subject to change without notice.

June 10th, 1880.

CASH PRICES FOR ROLL AND SHEET BRASS.

For less quantity than 100 pounds, add 3 cents per pound.

Prices subject to change without notice.

SEE RULES, PAGE 4.

HIGH BRASS.—All Nos. not thinner than No. 28, wider than 2 inches, not wider than 14 inches...	30
Half cent per pound additional on each No. thinner than No. 28 to No. 38, inclusive.	.
All Brass thinner than No. 38 is Platers' Brass, at...	53
All Nos. to No. 28, inclusive, and widths over 14 to 20 inches, inclusive.....	35
All Nos. to No. 28, inclusive, and widths over 20 to 30 inches, inclusive.....	38
Sheets 24x48 inches, and all sheets cut to particular sizes and lengths, under 30 inches in width, wider than 2 inches.....	37
Sheets wider than 30 inches and under 40 inches. inclusive.....	47
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Circles, in diameter from 4 inches to 14 inches, inclusive.....	40
Circles, in diameter over 14 inches to 20 inches, inclusive.....	45
Circles, in diameter over 20 inches to 30 inches, inclusive.....	49
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Printers' Rules.....	43
LOW BRASS—4 cents per pound more than High Brass.	
GILDING METAL—8 cents per pound more than High Brass.	
Platers' or Gold Metal, { In Bars.....	48
{ Sawed to Dimensions.....	51
{ Planed or Polished.....	54
Discount, per cent.	

FOR SLITTING.

For Metal 2 in. and under in width, add as follows:	
Above $\frac{1}{4}$ in. to 2 in., inclusive, not thinner than No. 28,	01
$\frac{1}{4}$ " $\frac{1}{4}$ " " " 28.	02
$\frac{1}{4}$ inch and less.....	10
Above 1 in. to 2 in., inclusive, thinner than No. 28....	02
$\frac{1}{4}$ " 1 " " " 28....	03
$\frac{1}{4}$ " $\frac{1}{4}$ " " " 28....	05
$\frac{1}{4}$ inch and less.....	10
When any of the above widths are cut to particular lengths, add 7 cents per pound.	

FINE WROUGHT BRONZE.

Unexcelled in Malleability, Fineness of Texture,
and Matchless Color. Unequaled for

Gas Fixtures,

Chandeliers,

Trimmings,

and all work requiring the richest color and the
highest attainable finish.

Price per lb.

In Sheets or Rolls for Blanking or Spinning,

“ Strips

“ Rods.....

“ Tubing, Plain, Fancy, Square or Flat....

Discount, per cent.

Flat Sheets or Plates.

By a new process, we are now prepared to furnish, in any quantity, Brass Sheets and Plates cut to dimensions, *Absolutely Flat*, an article heretofore impossible to obtain. This is the final result of a series of experiments, enabling us to supply to the trade Plates far superior to any hitherto offered.

Flat Sheets per lb.....

June 10th, 1880.

Brass & Copper Wire.

Prices subject to change without notice.

	High Brass	Low Brass	Gild'g and Cop.
Nos. 0 to 20.....	33	37	43
No. 21.....	36	40	46
" 22.....	37	41	47
" 23.....	38	42	48
" 24.....	40	44	50
" 25.....	43	47	53
" 26.....	45	49	55
" 27.....	48	52	58
" 28.....	52	56	63
" 29.....	55	59	66
" 30.....	58	62	72
" 31.....	62	66	78
" 32.....	66	70	84
" 33.....	70	74	93
" 34.....	74	78	103
Spring Wire, 2 cts. per lb. advance.			
Flat, Square, and Half Round Wire, 5c. per lb. advance on Round Wire.			
Fancy Wire not less than 10 cts. per lb. advance on Round Wire.			
Wire straightened and cut, smaller than No. 8, and not less than 2 ft. lengths, <i>special rates</i> .			
Wire less than 2 ft. lengths, <i>special rates</i> .			
12c. per lb. extra for spooling on 1 lb. spools.			
Wire in 5 lb. packages 1c. per lb. net advance.			

Brass Rods.

Brass Rods, No. 8 and larger, not less than 2 feet lengths.....	38		
Square Rods, 5c. per lb. advance.			
Half Round Rods, <i>special rates</i> .			
Fancy Rods, fluted, or to particular patterns, <i>special rates</i> .			
Rods cut less than 2 feet long, <i>special rates</i> .			
Discount per cent.			

Low Brass or Copper Rods.

per pound advance.

Dec. 11th, 1879.

GERMAN SILVER MARKET METAL.

BROWN & SHARPE'S GAUGE.

Prices subject to change without notice.

4 per cent., 12 inch, to No.	26	52
5 " 12 "	26	54
6 " 12 "	26	56
7 " 12 "	26	58
8 " 12 "	26	60
9 " 12 "	26	62
10 " 12 "	26	64
11 " 12 "	26	66
12 " 12 "	26	68
13 " 12 "	26	70
14 " 12 "	26	72
15 " 12 "	26	74
16 " 12 "	26	76
17 " 12 "	26	78
18 " 12 "	26	80

Discount, per cent.

German Silver Scrap, one-half net price of 12 inch Market Metal.

German Silver Turnings, Filings and Chips, half the price of Scrap.

July 1st, 1878.

GERMAN SILVER WIRE.

STUBBS' WIRE GAUGE.

Prices subject to change without notice.

4 per cent., to No.	20	\$0 70
6 " "	20	76
8 " "	20	82
10 " "	20	88
12 " "	20	94
14 " "	20	1 00
16 " "	20	1 06
18 " "	20	1 12

Wire finer than No. 20, add double the additions on Copper Wire list for corresponding numbers.

Discount, per cent.

SCRAP.

Prices subject to change without notice.

High Brass Scrap, 12 cents.

Low " " 14 "

Gilding 16 cents.

Turnings, Filings and Chips, half the price of Scrap.

Discount, per cent.

June 10th, 1880.

Price List of Brazen Brass & Copper Tubing.

BROWN & SHARPE'S GAUGE STANDARD.

Prices subject to change without notice.

	Per lb
Plain to No. 20, inclusive, above $\frac{1}{4}$ inch to 3 inches, inclusive.....	\$0 43
Plain to No. 20, above 3 inch.....	53
“ 1-4 inch.....	70
“ 3-16 “.....	1 10
“ 1-8 “.....	1 60
Nos. 21, 22, 23, two cents advance on list for each number.	
Nos. 24, 25, 26, four cents advance on list for each number.	
Above No. 26, special rates.	
Fancy Tubing to No. 20.....	50
English, Scotch and Extra Patterns, Fancy Tubing, to No. 20.....	55
Tubing sawed or cut 2 to 4 feet long, two cents advance on list.	
Add to 2 cents $\frac{1}{2}$ cent for each additional cutting under 2 feet.	
All <i>Mandrel-Drawn</i> Tubes, $\frac{3}{4}$ inch and over, five cents advance on list prices.	
All Mandrel Drawn Tubes under $\frac{3}{4}$ inch, twenty-five cents per pound advance.	
Discount, per cent.	

June 10th, 1880.

ZINC TUBING.

Prices subject to change without notice.

Plain.....	27
Fancy.....	33
Scotch and Extra Patterns.....	36
Discount, Per cent.	

July 1st, 1881.

Copper Belt and Hose Rivets and Burs.

Prices subject to change without notice.

No. 7	per lb., 49c.
" 8	50
" 9	52
" 10	54
" 11	56
" 12	58
" 13	60
" 14	65
" 15	70

Brass Rivets not less than Copper. Copper and Brass Rivets and Burs made to particular sizes and patterns, *special price*, not less than corresponding rates.

Terms, per cent. discount, Cash in 30 days.

If not paid in 30 days, interest to be added.

COPPER RIVETS AND BURS.

NUMBER PER POUND.

Length.	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	Burs
No. 7..	264	248	184	192	156	152	136	116	104	92	84	76	63	420
" 8..	276	268	226	204	192	168	160	136	116	104	100	94	...	588
" 9..	336	300	256	244	212	200	172	164	148	132	128	112	...	756
" 10..	420	392	348	290	280	258	236	202	196	...	...	...	...	840
" 12..	688	520	500	420	376	367	358	326	...	...	...	...	...	1262
" 13..	760	637	546	...	...	...	...	...	...	...	...	...	...	1900

MISCELLANEOUS.

Prices subject to change without notice.

Brass Pail Ears.....	50c.
Brass Door Rail.....	43

Discount, per cent.

SEAMLESS BRASS FERRULES.

CHISEL HANDLE.

No.	Inside Diam-eter.	Depth.	Price per gross.	No.	Inside Diam-eter.	Depth.	Price per gross.
00	1 in.	$\frac{19}{30}$	\$1 56	5	$\frac{20}{32}$	$\frac{13}{32}$	\$0 65
0	"	$\frac{18}{30}$	1 30	6	$\frac{18}{32}$	$\frac{12}{32}$	55
1	"	$\frac{17}{30}$	1 10	7	$\frac{16}{32}$	$\frac{11}{32}$	45
2	"	$\frac{16}{30}$	88	8	$\frac{14}{32}$	$\frac{10}{32}$	45
3	"	$\frac{15}{30}$	75	9	$\frac{13}{32}$	$\frac{9}{32}$	45
4	"	$\frac{14}{30}$	70	10	$\frac{10}{32}$	$\frac{8}{32}$	45

Discount, per cent. Assorted 00 to 10, 90 cts.

SCREW-DRIVER HANDLE.

No.	Inside Diam-eter.	Depth in 100th of in.	Price per gross.	No.	Inside Diam-eter.	Depth in 100th of in.	Price per gross.
00	1 in.	.78	\$2 15	5	$\frac{20}{32}$	.54	\$0 80
0	"	.74	1 80	6	$\frac{18}{32}$	.50	70
1	"	.70	1 50	7	$\frac{16}{32}$	.46	60
2	"	.66	1 20	8	$\frac{14}{32}$	.42	55
3	"	.62	1 00	9	$\frac{13}{32}$	.38	55
4	"	.58	90	10	$\frac{10}{32}$	.34	55

Discount, per cent.

BRASS ESCUTCHEON PINS.

JULY, 1882. In 1 lb. paper boxes. Price per lb.

INCH.	3-1	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$	2
No. 10	....	....	....	....	....	....	....	64	63	62	62	61
" 12	....	....	76	72	70	68	66	65	64	64	62	62
" 13	....	....	77	73	71	70	68	66	66	64	64	64
" 14	....	88	80	76	74	73	72	70	70	68	68	68
" 15	....	90	82	78	76	74	73	72	72	70	70	70
" 16	....	92	84	80	78	76	74	74	74	74	76	76
" 17	....	98	88	84	80	78	76	76	76	78	78	80
" 18	1 06	96	90	86	84	82	82	82	84	84	86	88
" 19	1 16	1 06	96	90	86	86	86	90	92	94	....	....
" 20	1 72	1 32	1 22	1 12	1 06	1 00	1 00	1 02	1 06	....	....	....
" 21	1 92	1 52	1 32	1 22	1 12	1 12	1 16	1 18	....	....	....	....
" 22	2 12	1 72	1 52	1 32	....	....	....	....	....	....	....	....

Silver Plated, cents per lb. advance on above prices.
Discount, per cent.

JACK CHAIN.

PRICE PER PACKAGE OF 12 YARDS.

SINGLE.				DOUBLE.		
No.	Iron.	Brass.	Plated.	Iron.	Brass.	Plated.
5....	\$3 20	\$9 00				
6....	2 60	7 50				
7....	2 20	6 25				
8....	1 90	5 25	\$8 50			
9 ...	1 65	4 50	7 00			
10....	1 40	3 75	5 50	\$2 75	\$8 00	\$10 50
11....	1 20	3 20	4 50	2 00	6 50	8 75
12....	90	2 50	3 75	1 70	5 25	7 25
13 ...	75	2 05	3 20	1 45	4 05	6 00
14....	65	1 70	2 85	1 30	3 00	4 50
15....	55	1 40	2 25	1 05	2 55	3 75
16....	50	1 25	2 10	95	2 25	3 25
17....	45	1 10	1 80	90	1 95	2 90
18....	42	1 00	1 60	88	1 50	2 50
19....	40	85	1 50	85	1 40	2 10
20....	38	70	1 35	80	1 20	1 80
21....	36	60	1 25	80	1 20	1 80
22....	34	55	1 15	75	1 15	1 75
23....	34	55	1 15	75	1 15	1 75
24....	34	55	1 15	75	1 15	1 75
26....				85	1 25	1 85

Discount, per cent.

SAFETY CHAIN.

No.	Brass.	Plated.
000.....	\$1 75	\$2 50
00.....	2 25	3 00
0.....	2 50	3 25
1.....	3 12	4 08
2.....	4 68	5 75
3.....	6 36	8 00

Discount, per cent.

Wrought Brass Butts—Common.

PRICE PER DOZEN PAIRS.

Length.	Broad.	Middle.	Narrow.	Desk.
$\frac{1}{8}$ inch.	\$0 50	\$0 45	\$0 38	\$0 57
"	50	45	38	60
"	52	48	42	72
1	60	54	48	87
$1\frac{1}{8}$	72	60	54	1 08
$1\frac{1}{4}$	80	67	60	1 27
$1\frac{3}{8}$	84	75	67	1 50
$1\frac{1}{2}$	1 00	87	78	1 80
$1\frac{5}{8}$	1 12	1 00	90	2 10
$1\frac{3}{4}$	1 30	1 10	96	2 70
$1\frac{7}{8}$	1 48	1 17	1 06	2 93
2	1 70	1 44	1 23	3 50
$2\frac{1}{4}$	2 20	1 80	1 73	
$2\frac{1}{2}$	2 60	2 34	1 92	
$2\frac{3}{4}$	3 09	2 85	2 12	
3	4 27	3 70	2 80	
$3\frac{1}{4}$	5 10	4 38	3 65	
$3\frac{1}{2}$	6 60	5 10	4 48	
$3\frac{3}{4}$	8 00	6 22	5 67	
4	10 50	8 00	7 50	

Discount, per cent.

SHUTTER HINGES.

Length and Width when Open.	Doz. Prs
$1\frac{1}{2} \times 1\frac{1}{4}$ inches.....	\$1 35
$1\frac{1}{2} \times 2\frac{1}{4}$ ".....	1 87
$1\frac{1}{2} \times 1\frac{1}{2}$ ".....	1 32
$1\frac{1}{2} \times 2$ ".....	1 87
$1\frac{1}{2} \times 2\frac{1}{2}$ ".....	2 13
$1\frac{1}{2} \times 2\frac{3}{4}$ ".....	2 25
$1\frac{1}{2} \times 3$ ".....	2 63
$1\frac{1}{2} \times 1\frac{3}{4}$ ".....	2 40
$1\frac{1}{2} \times 2\frac{1}{2}$ ".....	2 70
$1\frac{1}{2} \times 2\frac{3}{4}$ ".....	2 85
$2 \times 1\frac{1}{2}$ ".....	1 87
2×2 ".....	3 00
$2 \times 2\frac{1}{2}$ ".....	3 37
2×3 ".....	3 63

Other sizes made to order.

Discount, per cent.

We are also prepared to furnish PAPER FILE HINGES, COFFIN HINGES, FINE POLISHED BUTTS for Piano Fortes, &c. ELECTRO-PLATED HINGES, &c., &c.

Table Showing the Difference Between Wire Gauges.

No.	Old English or London.	Birmingham or Stubbs'.	American or Brown & Sharpe's
0000	.454	.454	.460
000	.425	.425	.40964
00	.380	.380	.36480
0	.340	.340	.32495
1	.300	.300	.28930
2	.284	.284	.25763
3	.259	.259	.22942
4	.238	.238	.20431
5	.220	.220	.18194
6	.203	.203	.16202
7	.180	.180	.14428
8	.165	.165	.12849
9	.148	.148	.11443
10	.134	.134	.10189
11	.120	.120	.09074
12	.109	.109	.08081
13	.095	.095	.07196
14	.083	.083	.06408
15	.072	.072	.05706
16	.065	.065	.05082
17	.058	.058	.04525
18	.049	.049	.04030
19	.040	.042	.03589
20	.035	.035	.03196
21	.0315	.032	.02846
22	.0295	.028	.025347
23	.027	.025	.022571
24	.025	.022	.0201
25	.023	.020	.0179
26	.0205	.018	.01594
27	.01875	.016	.014195
28	.0165	.014	.012641
29	.0155	.013	.011257
30	.01375	.012	.010025
31	.01225	.010	.008928
32	.01125	.009	.00795
33	.01025	.008	.00708
34	.0095	.007	.0063
35	.009	.005	.00561
36	.0075	.004	.005
37	.0065		.00445
38	.00575		.003965
39	.005		.003531
40	.0045		.003144

Weight of Copper and Brass Wire and Plates by American Gauge.

No. of Gauge.	Size of each No.	WEIGHT OF WIRE per 1000 lineal feet.		WEIGHT OF PLATES per square foot.	
		Copper.	Brass.	Copper.	Brass.
	<i>Inch.</i>	<i>Lbs.</i>	<i>Lbs.</i>	<i>Lbs.</i>	<i>Lbs.</i>
0000	.46000	640.51	605.18	20.838	19.688
000	.40964	507.95	479.91	18.557	17.533
00	.36480	402.83	380.67	16.525	15.613
0	.32486	319.45	301.82	14.716	13.904
1	.28930	253.34	239.35	13.105	12.382
2	.25763	200.91	189.82	11.671	11.027
3	.22942	159.32	150.52	10.393	9.8192
4	.20431	126.35	119.38	9.2552	8.7445
5	.18194	100.20	94.666	8.2419	7.787
6	.16202	79.462	75.075	7.3395	6.9345
7	.14428	63.013	59.545	6.5359	6.1752
8	.12849	49.976	47.219	5.8206	5.4994
9	.11443	39.636	37.437	5.1837	4.8976
10	.10189	31.426	29.687	4.6156	4.3609
11	.090742	24.924	23.549	4.1106	3.8838
12	.080808	19.766	18.676	3.6606	3.4586
13	.071961	15.674	14.809	3.2598	3.0799
14	.064084	12.435	11.746	2.9030	2.7428
15	.057068	9.859	9.315	2.5852	2.4425
16	.050820	7.819	7.587	2.3021	2.1751
17	.045257	6.199	5.857	2.0501	1.937
18	.040303	4.916	4.645	1.8257	1.725
19	.035890	3.899	3.684	1.6258	1.5361
20	.031961	3.094	2.920	1.4478	1.3679
21	.028462	2.452	2.317	1.2893	1.2182
22	.025347	1.945	1.838	1.1482	1.0849
23	.022571	1.542	1.457	1.0225	.96604
24	.020100	1.223	1.155	.91053	.86028
25	.017900	.9699	.9163	.81087	.76612
26	.01594	.7692	.7267	.72208	.68223
27	.014195	.6099	.5763	.64303	.60755
28	.012641	.4837	.4570	.57264	.54103
29	.011257	.3835	.3624	.50994	.48180
30	.010025	.3002	.2874	.45413	.42907
31	.008928	.2413	.2280	.40444	.38212
32	.007950	.1913	.1808	.36014	.34026
33	.007080	.1517	.1434	.32072	.30302
34	.006304	.1204	.1137	.28557	.26981
35	.005614	.0956	.0915	.25431	.24028
36	.005000	.0757	.0715	.2265	.2140
37	.004453	.06003	.05671	.20172	.19059
38	.003965	.04758	.04496	.17961	.1697
39	.003531	.03775	.03566	.15995	.15113
40	.003144	.02992	.02827	.14242	.13456

Weight of Sheet and Bar Brass and Bolt Copper.

WEIGHT IN THOUSANDTHS OF POUNDS.

Thickness or Diameter or Side, Inches.	Sheets per Square Foot.	Square Bars 1 Foot Long.	Round Bars 1 Foot Long.	Bolt Copper 1 Foot Long.
1-16	2.7	.015	.011	.....
1-8	5.41	.055	.045	.0473
3-16	8.12	.125	.1	.1064
1-4	10.76	.225	.175	.1892
5-16	13.48	.350	.275	.2956
3-8	16.25	.51	.395	.4248
7-16	19.	.69	.54	.5794
1-2	21.65	.905	.71	.7559
9-16	24.3	1.15	.9	.9578
5-8	27.12	1.4	1.1	1.179
11-16	29.77	1.72	1.35	1.4307
3-4	32.46	2.05	1.06	1.699
13-16	35.18	2.4	1.85	1.9982
7-8	37.85	2.75	2.15	2.319
15-16	40.55	3.15	2.48	2.6605
1	43.29	3.65	2.85	3.029
1-16	45.95	4.08	3.20	3.417
1-8	48.69	4.55	3.57	3.829
3-16	51.4	5.08	3.97	4.269
1-4	54.18	5.65	4.41	4.719
5-16	56.85	6.22	4.86	5.214
3-8	59.55	6.81	5.35	5.719
7-16	62.25	7.45	5.85	6.255
1-2	65.	8.13	6.37	6.799
9-16	67.75	8.83	6.92	7.390
5-8	70.35	9.55	7.48	7.949
11-16	73	10.27	8.05	.....
3-4	75.86	11.	8.65	9.270
13-16	78.55	11.82	9.29	.....
7-8	81.25	12.68	9.95	10.642
15-16	84.	13.5	10.58	.....
2	86.75	14.35	11.25	12.087

Weight of Brass, Copper and Zinc Tubing, per foot.

Numbered by Brown & Sharpe's Gauge.

WEIGHT IN THOUSANDTHS OF POUNDS.

BRASS. No. 17.		BRASS. No. 20.		COPPER Lightning Rod Tube, No. 23.	
<i>Inch.</i>	<i>Lbs.</i>	<i>Inch.</i>	<i>Lbs.</i>	<i>Inch.</i>	<i>Lbs.</i>
1-4	.107	1-8	.032	1-2	.162
5 16	.157	3-16	.039	9-16	.176
3-8	.185	1-4	.063	5-8	.186
7 16	.234	5-16	.106	11-16	.211
1-2	.266	3-8	.126	3-4	.229
9-16	.318	7-16	.158		
5-8	.333	1-2	.189		
3-4	.377	9-16	.208	ZINC. No. 20.	
7-8	.462	5-8	.220		
1	.542	3-4	.252		
1 1-8	.675	7-8	.284	1-2	.161
1 1-4	.740	1	.378	5-8	.185
1 1-2	.915	1 1-4	.500	3-4	.234
1 3-4	.980	1 1-2	.580	7-8	.272
2	1.90			1	.311
2 1-2	1.506			1 1-4	.380
3	2.188			1 1-2	.452

Table of Weights of Sheet Copper per
Square Foot, and Thickness per
English Wire Gauge.

English Wire Gauge.	Weight per Sq. Ft.		14 x 48	24 x 48	30 x 60	36 x 72	48 x 72
No.	Lbs.	Oz.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.
1....	14	8	...	116	181	261	348
2....	13	14	...	111	174	250	334
3....	12	12	...	102	159	230	306
4....	11	9	...	93	145	209	278
5....	10	1	...	81	126	182	242
6....	9	6	...	75	118	169	226
7....	8	11	...	70	109	157	209
8....	7	14	...	63	99	142	190
9....	7	3	...	58	90	130	173
10....	6	8	...	48	81	117	156
11....	5	12	...	46	73	104	139
12....	5	1	...	41	64	91	122
13....	4	5	...	35	54	78	104
14....	3	9	...	29	45	65	86
15....	3	4	...	26	41	59	78
16....	2	14	...	23	36	52	70
17....	2	8	...	20	32	45	60
18....	2	2	...	18	27	39	52
19....	1	15	...	16	24	35	47
20....	1	12	...	14	22	32	43
21....	1	9	...	13	20	29	39
22....		22	6½	12	18	26	35
23....		20	5⅞	10	16	23	31
24....		18	5¼	9	15	21	28
25....		16	4⅝	8	12½	19	25
26....		14	4	7	11	15	21
27....		12	3½	6	9⅝	13	18
28....		10	3	5	7	11	15

TABLE OF DECIMAL EQUIVALENTS

OF

8ths, 16ths, 32ds and 64ths of an Inch.

8ths.

$$\frac{1}{8} = .125$$

$$\frac{2}{8} = .25$$

$$\frac{3}{8} = .375$$

$$\frac{4}{8} = .50$$

$$\frac{5}{8} = .625$$

$$\frac{6}{8} = .75$$

$$\frac{7}{8} = .875$$

16ths.

$$\frac{1}{16} = .0625$$

$$\frac{3}{16} = .1875$$

$$\frac{5}{16} = .3125$$

$$\frac{7}{16} = .4375$$

$$\frac{9}{16} = .5625$$

$$\frac{11}{16} = .6875$$

$$\frac{13}{16} = .8125$$

$$\frac{15}{16} = .9375$$

32ds.

$$\frac{1}{32} = .03125$$

$$\frac{3}{32} = .09375$$

$$\frac{5}{32} = .15625$$

$$\frac{7}{32} = .21875$$

$$\frac{9}{32} = .28125$$

$$\frac{11}{32} = .34375$$

$$\frac{13}{32} = .40625$$

$$\frac{15}{32} = .46875$$

$$\frac{17}{32} = .53125$$

$$\frac{19}{32} = .59375$$

$$\frac{21}{32} = .65625$$

$$\frac{23}{32} = .71875$$

$$\frac{25}{32} = .78125$$

$$\frac{27}{32} = .84375$$

$$\frac{29}{32} = .90625$$

$$\frac{31}{32} = .96875$$

64ths.

$$\frac{1}{64} = .015625$$

$$\frac{3}{64} = .046875$$

$$\frac{5}{64} = .078125$$

$$\frac{7}{64} = .109375$$

$$\frac{9}{64} = .140625$$

$$\frac{11}{64} = .171875$$

$$\frac{13}{64} = .203125$$

$$\frac{15}{64} = .234375$$

$$\frac{17}{64} = .265625$$

$$\frac{19}{64} = .296875$$

$$\frac{21}{64} = .328125$$

$$\frac{23}{64} = .359375$$

$$\frac{25}{64} = .390625$$

$$\frac{27}{64} = .421875$$

$$\frac{29}{64} = .453125$$

$$\frac{31}{64} = .484375$$

$$\frac{33}{64} = .515625$$

$$\frac{35}{64} = .546875$$

$$\frac{37}{64} = .578125$$

$$\frac{39}{64} = .609375$$

$$\frac{41}{64} = .640625$$

$$\frac{43}{64} = .671875$$

$$\frac{45}{64} = .703125$$

$$\frac{47}{64} = .734375$$

$$\frac{49}{64} = .765625$$

$$\frac{51}{64} = .796875$$

$$\frac{53}{64} = .828125$$

$$\frac{55}{64} = .859375$$

$$\frac{57}{64} = .890625$$

$$\frac{59}{64} = .921875$$

$$\frac{61}{64} = .953125$$

$$\frac{63}{64} = .984375$$

TO ASCERTAIN THE WEIGHT OF COPPER.

Find the number of cubic inches in the piece, multiply by 0.3214, and the product will be the weight in pounds.

Or, multiply the length and breadth (in feet), and that by the pounds per square foot.

The area of a circle is equal to the square of the diameter multiplied by 0.7854.

The circumference of a circle is equal to the diameter multiplied by 3.1416.

11-14 of diameter gives exactly 1-4 circumference.

To find the diameter of a circle when the circumference is given, multiply the circumference by 7 and divide by 22.

BRIGHT DIP FOR COPPER AND BRASS.

Nitric acid, 2 parts.

Sulphuric acid, 1 part.

Add to each gallon of the mixture 1 teaspoonful table salt.



